Depth	Contents	Reference to last Measurement
6	7	8

First & Final:

BR-211/2011-12

M. A. R. 57 (Rule 116)
Measurement Book
No. B

261910

Serial No. ..... Improvements to Roads and Drains in Singapura paradise low level areas in ward no. 11 Kuvempunagra.

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency ..... Sri Subbanna, Singapura, Vidyaranjapura, B'lore-97.

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Job code: 011-12-000025						
	Work order: EE/BTP/BBMP/E-TND/147/2013-14 Date: 09.10.2013.						
	Est cost: 10.00 Lakhs						
1)	Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2m an average lift upto 0.5m excavated surface levelled and sides neatly dressed the disposed earth to be leveled neatly after breaking if clods complete as per specification						
	Removal of silt	2x4	30.00	0.45	0.30	32.40	
		2	33.00	0.45	0.35	10.40	
		2x2	30.00	0.45	0.30	16.20	
		2	7.00	0.45	0.35	2.21	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	20.00	0.45	0.35	6.30	
	For Road work	1	30.00	(4.8+5.4)	0.15	22.95	
		1	30.00	(5.4+5.0)	0.15	23.40	
		1	30.00	5.00	0.15	22.50	
		1	30.00	5.00	0.15	22.50	
		1	33.00	(5.0+5.3)	0.15	25.49	
		1	30.00	(3.0+4.2)	0.15	16.20	
		1	37.00	(4.2+6.5)	0.15	29.69	
		1	20.00	(3.8+3.5)	0.15	10.95	
						241.19 cu.m	
	Cube			@ 124.	61.00/cu.m		14712.00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	
1	2	
2)	Earthwork excavation by manual horizontal throw upto 2m and on level and sides neatly dressed for breaking of clods complete as per sp... culvert	
3)	Removing BS slab drain and ...	2...

Depth 6	Contents 7	Reference to last Measurement 8
0·35	6·30	
0·15	22·95	
0·15	23·40	
0·15	22·50	
0·15	22·50	
0·15	25·49	
0·15	16·20	
0·15	29·69	
0·15	10·95	
	241·19 m³	
61·00/m³		14712·00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

261911

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
2)	Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2m and an average lift upto 0.5m excavated surface level and sides neatly dressed the disposal earth to be leveled neatly after breaking of clods complete as per specifications.						
	Culverts	1	6.00	2.00	1.20	12.48	
		1	5.00	2.00	1.20	9.60	
						22.08 m³	
				@ Rs. 84.00/m³			1855·00
3)	Removing BS slab drain and stacking at complete						
		2×4	30.00	-	1.35	324.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	33.00	-	1.35	89.10	
		2x2	30.00	-	1.35	162.00	
		2	7.00	-	1.35	18.90	
		2	20.00	-	1.35	54.00	
						596.70 m²	
				@ Rs.	46.00/m²		27448.00
4)	Refixing stone slabs of drains and pointing in CM (1:3) etc complete						
		Qty vide Item No. (3)				596.70 m²	
				@ Rs.	58.10/m²		34609.00
	SL No: 05 & 06 Not executed			Cut & Collect			

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .
Date of commencement of work .....

Date	Full description, etc, of work
1	2
7)	providing and laying in p with opc cement @ 180 kg/ metal coarse aggregate @ 0.8 concrete laid in layers not e and plinth including cost f

OK

Depth 6	Contents 7	Reference to last Measurement 8
1.35	89.10	
1.35	162.00	
1.35	18.90	
1.35	54.00	
	586.20 m²	
46.00(m²		27448=00
CM (1:3)		
③	586.20 m²	
		34609=00
Ph. 58.10(m²		
de		
Cement		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

261912

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
7)	providing and laying in position plain cement concrete of mix M7.5 with opc cement @ 180 kgs using 40 mm and down size graded granite metal coarse aggregates @ 0.85 cu and fine aggregate at 0.58 cu machine mixed concrete laid in layers not exceeding 15 cm thick well compacted in foundations and plinth including cost of materials etc complete						
		1	6.00	1.80	0.15	1.62	
		1	5.00	1.80	0.15	1.35	
						2.97 m³	
				@ Rs.	3821.10/m³		11348=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
8)	providing and constructing granite / trap / balalt size stone masonry in foundation cement concrete 1:6 stone hammered dressed in course not less than 20 cms high bond stones at 2m apart in each course including cost of materials etc complete as per specification						
		2	6.00	0.60	0.60	4.32	
		2	5.00	0.60	0.60	3.60	
						7.92 m^3	
				@ Rs	2743.00/m^3		21725.00
9)	providing and laying in position plain cement concrete of mix M15 with cement @ 240 kgs with 20mm and down size graded granite metal work aggregates @ 0.878 cum and fine aggregates @ 0.45 cum machine mixed concrete laid in layers not exceeding 15 cm thick well compacted in foundation plain and cills including cost of all material etc complete as per specification.						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ...
Date of commencement of work .....

Date	Full description, etc, of work
1	2
10)	providing thick pointing to masonry with cement mortar 1: of 20mm nicely lining includ

OK

Depth 6	Contents 7	Reference to last Measurement 8
e stone	masonry	
ead in	course	
ach course		
ou		
0·60	4·32	
0·60	3·60	
	7·92 m³	
2743·00/m³		21725·00
evelled & wire	M15	
ished granite		
e 0·45 cum		
15 cm thick	weep	
& all	materials	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

261913

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		2	6·00	0·60	0·10	0·72	
		2	5·00	0·60	0·10	0·60	
						1·32 m³	
				Cft.	4328·00/m³		5713·00
10)	Providing flush pointing to square rubble course or uncoursed stone masonry with cement mortar 1:3 20mm deep after racking joints to depth & 20mm nicely lining including cost of materials etc. complete.						
		2	6·00	-	0·60	7·20	
		2	5·00	-	0·60	6·00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						13.20 m²	
				@ Rs.	74.00/m²		977=00
11)	Providing and removing centering shuttering striking propping etc and removal of formwork for vertical surface such as walls at any thickness including attached pilasters buttresses plinth and string courses cost of all materials etc complete.						
		10	4.80	0.23	-	11.04	
		9	4.80	0.23	-	9.94	
						20.98 m²	
				@ Rs. 215=10/m²			4510=00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	
12)	providing and laying in position mix M20 with opc cement @ 320 granite metal coarse aggregates @ 8 with superplasticizer @ 3% confirm machine mixed concrete laid in for all works in foundation plinth	

OK

Depth 6	Contents 7	Reference to last Measurement 8
	13.20 m2	
24.00 m2		977=00
ing propping the al walls at plinth and string		
-	11.04	
-	9.94	
	20.98 m2	
ol/m2		4510=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To.....

261914

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
12)	providing and laying in position reinforcement cement concrete of design mix M20 with opc cement @ 320kg with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplasticizer @ 3lit confirming to IS 9103-1999 reaffirmed-2008 machine mixed concrete laid in layers not exceeding 15cm thick vibrated for all works in foundation plinth and ground floor etc complete						
		10	1.80	0.60	0.23	2.48	
		9	1.80	0.60	0.23	2.24	
						4.72	
				@Rs. 5138=00/m3			24251=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
13)	providing TMT Steel reinforcement for RCC work including straightening cutting bending hooking placing in position lapping and or welding wherever required tying with binding wire and anchoring to be cast in the members wherever necessary complete as per design clops, hooks and wastage shall be measured and paid) cost of materials labours tools & machinery complete as per specification.						
	As per - premeasurement Recorded at Viele page No: 261880 of this MB 1/5					4.30 Qtl	
						@ Rs. 7127.00/Qtl	30646=00
	SL No: 14 and 15 Not executed						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ..
Date of commencement of work .....

Date	Full description, etc, of work
1	2
16)	Road for disposal of debris mechanical means including as per specification
17)	providing laying spreading to wet mix macadam spec with water at OMC in mec

	Contents	Reference to last Measurement
	7	8
	straightening welding to be carrying oles and abours Item	
	page No:	
	4·30 Qty	
		30646=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

261915

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
16)	Road for disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading etc complete as per specification						
		Qty vide Item No: ①+②				= 241.19 m³ 22.08 m³ 263.27 m³	18929
				@ Rs 71·90/m³			
17)	providing laying spreading and compacting granite stone aggregates to wet mix macadam specification including premixing the metal with water at OMC in mechanical mix plant carriage & mixed	EIRL					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Material by tipper to site laying in sub base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specification		uniform layers with paver in				
		1	30.00	(4.8+5.4) / 2	0.15	22.95	
		1	30.00	(5.4+5.0) / 2	0.15	23.40	
		1	30.00	5.00	0.20	30.00	
		1	30.00	5.00	0.20	30.00	
		1	33.00	(5.0+5.3) / 2	0.20	33.99	
		1	30.00	(3.0+4.2) / 2	0.15	16.20	
		1	37.00	(4.2+6.5) / 2	0.20	39.59	
		1	20.00	(3.8+3.5) / 2	0.15	10.95	
						206.44 cu.m	212179=00

@ Rs 1027.80/m3

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
18)	Cleaning the existing WBM binding materials and other debris sweeping with broom and sunny days and/or compressed cost of materials complete

OK

Depth 6	Contents 7	Reference to last Measurement 8
s with paver in compacting with i as per specification		
0.15	22.95	
0.15	23.40	
0.20	30.00	
0.20	30.00	
0.20	33.99	
0.15	16.20	
0.20	39.59	
0.15	10.95	
	206.48 cu.m	212179.00

Rs 1027.80/cu.m

M. A. R. 57 (Rule 116)
Measurement Book

No. B 261916

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
18)	Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire brushes and small brooms sweeping with broom or soft brushes and finally cleaning with dry gunny bags and/or compressed air to receive bituminous treatment complete including cost of materials complete						
		1	30.00	(4.8+5.4)	-	153.00	
		1	30.00	(5.4+5.0)	-	156.00	
		1	30.00	5.00	-	150.00	
		1	30.00	5.00	-	150.00	
		1	33.00	(5.0+5.3)	-	169.95	
		1	30.00	(3.0+4.2)	-	108.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	37.00	(4.2 + 6.5)	-	197.95	
		1	20.00	(3.8 + 3.5)	-	73.00	
						1144.00 m²	
				@ Rs. 9.01 / m²			10307=00
19)	Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg/sq.m with mechanical means. complete as per specification.						
		Qty as per item No. (18)				1144.00 m²	
		@ Rs. 38.45/m²					43986=00

Checked

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Num
1	2	3
20)	Providing and laying semi dense 100-120 TPH batch type HMP produ per hour using crushed aggregates & binder at 4.50 to 5% of mix and bi laying with a hydrostatic paver finis to grade level and alignment rolling complete.	1

OK

Depth 6	Contents 7	Reference to last Measurement 8
) -	197.95	
) -	73.00	
	1144.00 m²	
01/m²		10307=00
emulsion on		
road surface		
chemical mixy.		
)	1144.00 m²	
38.45/m²		43986=00
	Cash	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 261917

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
20)	providing and laying semi dense bituminous concrete 25 mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bitumen binder at 4.50 to 5% of mix and after transporting the hot mix to work site laying with a hydrostatic paver finisher with sensor control to the required grade level and alignment rolling with smooth wheeled vibratory roller etc complete.	1	30.00	(4.8+5.4)	0.025	3.83	
		1	30.00	(5.4+5.0)	0.025	3.90	
		1	30.00	5.00	0.025	3.75	
		1	30.00	5.00	0.025	3.75	
		1	33.00	(5.0+5.3)	0.025	4.25	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	(3.0+4.2)	0.025	2.70	
		1	37.00	(4.2+6.5)	0.025	4.95	
		1	20.00	(3.8+3.5)	0.025	1.83	
						28.60 m³	
						@ Rs. 8565.01/m³	
						TOTAL	

Certificate:

Certified that the above work done is satisfactorily.

3/9/15

CBFC

Granth

S.O. (W.S.)

2449=00

968038=00

708153=00

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work
1	2

OOK

dth	Depth 6	Contents 7	Reference to last Measurement 8
-4.2)	0.025	2.70	
-6.5)	0.025	4.98	
-3.5)	0.025	1.83	
		28.60 m³	
2 Rs.	8565.01/m³		
TOTal			
...'s	satisfactorily.		

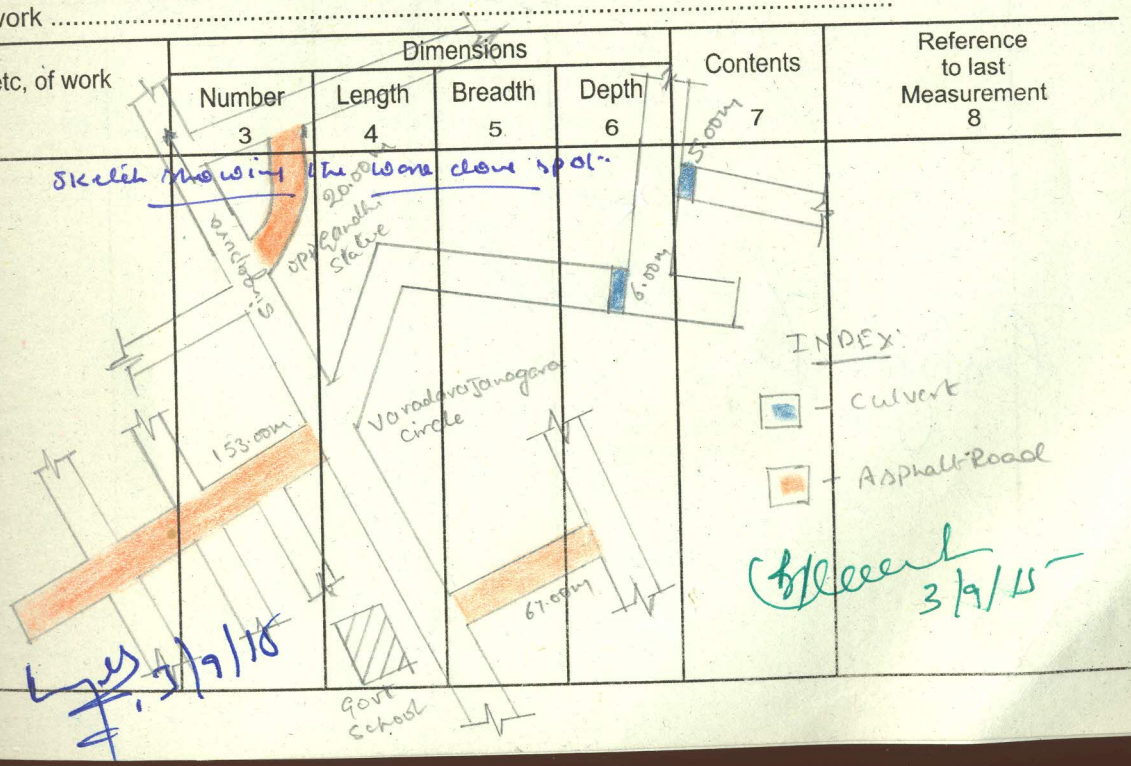
C&FC

M. A. R. 57 (Rule 116)
Measurement Book

No. B
261918

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Sketch showing the work done spot.						



MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agency ....

Date of commencement of work .....

Date	Full description, etc, of work
1	2